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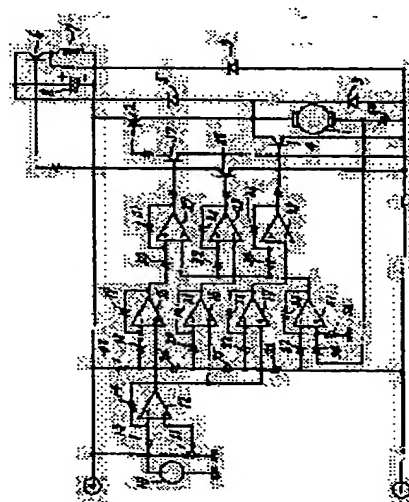
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(54) CONSTANT SPEED CONTROLLER OF DC MOTOR CAPABLE OF REGENERATIVELY BRAKING

(57)Abstract:

PURPOSE: To enable to control the power of a motor under any state by switching a semiconductor switching element provided in series with a flywheel diode.

CONSTITUTION: Power for driving a motor 1 is supplied through a semiconductor switching element 2. When a semiconductor switching element 4 connected in parallel with the motor 1 is conducted, a brake torque is generated in the motor 1. When the counterelectromotive force of the motor 1 is higher than the power source voltage, a semiconductor switching element 6 flows a brake current, thereby regenerating the current to the power source. When the rotating speed of the motor 1 is lower than the set rotating speed, an OP amplifier 12 rises its output, a drive current is flowed via the transistor 2, thereby suppressing the drop of the rotating speed of the motor 1. When the rotating speed of the motor 1 is higher than the set rotating speed, the brake current increases via the transistors 4, 6, thereby suppressing the increase of the rotating speed.



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